

**Comprehensive Program Profile (Sum -9)****Nuclear Energy - Most Current Actual Data**

Data Sources: Facility Information Management System - November 2003
EM Corporate - FY 2001 Update

Facility Status	Reported Number of Facilities
Operating	371
Operational Standby	2
Shutdown Pending Transfer	1
Shutdown Pending D&D	26
D&D in Progress	1
Operating Pending D&D	0
Operating Under an Outgrant	0
Transfer to Another Federal Agency	0
Sale	0
Demolished	0
Deactivation	1
Shutdown Pending Disposal	1
No Information Provided	58
Total	461

Hazard Category Group *	Reported Number of Facilities
Radiological	58
Chemical Hazard	4
Radiological & Chemical Hazard	6
Not Applicable	371
No Information Provided	22
Total	461

* For the purposes of the CID, facilities with a "Radiological" Hazard Category Group are broadly defined to include those facilities that meet the definition for either Nuclear Facility Category 1, Nuclear Facility Category 2, Nuclear Facility Category 3, or Radiological Facility as defined in DOE Standard 1027-92. Facilities with a "Chemical Hazard" Hazard Category Group are those that contain quantities of chemicals that exceed the threshold quantity for those chemicals as defined by OSHA's Chemical Process Safety regulation 29 CFR 1910.119, Appendix A. Facilities with a "Radiological and Chemical Hazard" Hazard Category Group are those that meet the Radiological and Chemical Hazard definition. The Hazard Category Group of "Not Applicable" refers to facilities that do not meet either the Radiological or Chemical Hazard definition. "No Information Provided" is listed for a facility when no information pertaining to the Hazard Category Group is available.

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Radioactive Waste Summary - 2000 Actual Data

Waste Type	Starting Inventory (m3)*	Reporting Period Additions (m3)*			Reporting Period Disposition Quantity (m3)*			Ending Inventory (m3)
		New	Process Outputs	Receipts	Treatment	Disposal	Other	
Low Level Waste	253.5600	621.380	0.000	0.000	0.000	425.380	196.000	0.0000
Mixed Low Level Waste	0.1000	2.500	0.000	0.000	0.000	2.500	0.000	226.2000
Transuranic Waste	1.2200	1.420	0.000	0.000	1.120	0.000	1.520	60.9000

* For Vitrified HLW, quantities are shown in "Number of HLW Canisters."

HLW generation data in the CID includes waste volumes that are incidental to the reprocessing of HLW.

Other Waste includes 11e(2) Byproduct Waste and Unspecified Waste.
Reported quantities do not include Groundwater or Wastewater.

Material balance may not be reflected in some CID reports for 1999 and 2000 data because inventory adjustments have been incorporated in the Ending Inventories.

Other Processing is calculated by adding the values for NPDES discharges, recycling, other processing, and return to remediation unit.

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Spent Nuclear Fuel Summary - 2000 Actual Data

Site	SNF Amount to be Managed (MTHM)***				SNF Final Disposition (MTHM)***			
	Starting Inventory	On-Site Generation	Off-Site Receipts	Total	On-Site Treatment	Ship to other DOE Site for Management/Storage	Ship for Disposal	Total
Spent Nuclear Fuel	22.3000	0.0000	0.0000	22.3000	0.2000	0.0000	0.0000	0.2000

*** SNF amounts are reported in metric tons of heavy metal (MTHM)

Mass is not conserved (ie. Total SNF Amount to be Managed and Total SNF Final Disposition are not equal) because this report presents data for only one year in the stream lifecycle". The difference between Total SNF to Be Managed and Total SNF Final Disposition is the ending inventory for the current year shown on the report.

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Country	U.S.
Year	2012
Capacity (MW)	103,920
Generation (TWh)	930
Cost (\$/kWh)	0.08
CO2 (g/kWh)	12
Uranium (kg)	10,000
Spent Fuel (kg)	1,000
Waste (kg)	100,000
Water (kg)	10,000,000
Land (km²)	100
Population (millions)	310
GDP (trillion \$)	16.5
Energy (TWh)	10,000
Renewables (TWh)	1,000
Fossil (TWh)	8,000
Nuclear (TWh)	930
Hydro (TWh)	1,000
Solar (TWh)	10
Wind (TWh)	100
Geothermal (TWh)	10
Biomass (TWh)	100
Other (TWh)	10

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In-Situ Contaminated Media Summary - 2000 Actual Data

Waste Type	Reporting Year Management Strategy (m3)				Reporting Year Total Volume (m3)
	In-Situ Treatment	In-Situ Containment	Access/ Institutional Controls	No Action	
Low Level Waste	13,947.00	0.00	0.00	0.00	13,947.00

* For Vitrified HLW, quantities are shown in "Number of HLW Canisters."

HLW generation data in the CID includes waste volumes that are incidental to the reprocessing of HLW.

Other Waste includes 11e(2) Byproduct Waste and Unspecified Waste.
Reported quantities do not include Groundwater or Wastewater.